

# SYS 203

## Intermediate Systems Planning, Research, Development and Engineering, Part II

**T**his journeyman-level course requires students to apply the DoD Systems Engineering processes and techniques learned in SYS 202. Students will work in integrated product teams and apply systems engineering technical processes and technical management processes to a defense system across the various phases of the Defense acquisition framework.

**Objectives:** Students who successfully complete this course will be able to:

- relate systems engineering to program management;
- apply systems engineering to a given system at various stages in its life cycle;
- use and apply event-based technical reviews; and
- develop key portions of a Systems Engineering Plan.

**Who Should Attend:** This course is part of the Level II certification training requirement for the Systems Planning, Research, Development and Engineering—Systems Engineering (SPRDE-SE) career field. Additionally, members of other career fields who require understanding of how systems engineering is applied to systems acquisition and sustainment will benefit from this course.

**Prerequisite:** Either SYS 202 or both SYS 201A and the technical reviews (CLE 003) continuous learning module, available at <http://clc.dau.mil>

**Recommended:** At least 2 years of technical experience in an acquisition position to include industry or government equivalent from among the following career fields/paths: SPRDE-SE; SPRDE-Science and Technology Manager; Information Technology; Test and Evaluation; Production, Quality, and Manufacturing; Program Management; or Life Cycle Logistics

**Length:** 5 class days

**Method of Delivery:** Resident/Local

**PDS Code:** J06



# SYS 301

## Advanced Systems Planning, Research, Development and Engineering

**D**esigned for senior DoD acquisition personnel, this course emphasizes an understanding of science, technology, and the systems engineering processes throughout a systems life cycle by using relevant case studies and exercises involving all acquisition phases and milestones. Participants employ the proven principles and tools of systems engineering requirements analyses, risk management, technical performance measures, tradeoff analyses, configuration and data management, and technical reviews. Advanced tools, such as integrated product teams, modeling and simulation, and open systems architectures, further facilitate managing the developing system.

**Objectives:** Students who successfully complete this course will be better able to:

- analyze and solve senior-level technical problems;
- forecast cost, schedule, performance, and risk issues across the acquisition life cycle;
- integrate program office activities;
- manage technology obsolescence; and
- use advanced technology tools.

**Who Should Attend:** This course is for military officers, O-3 through O-6, and DoD civilians, GS-13 and above, who are Level II certified in a Systems Planning, Research, Development and Engineering (SPRDE) career field. Equivalent industry acquisition managers are also eligible. The course is required for Level III certification in the SPRDE—Systems Engineering career field.

**Prerequisites:** SYS 201 and the Technical Reviews (CLE 003) continuous learning module, available at <http://clc.dau.mil>

**Length:** 10 class days

**Method of Delivery:** Resident/Local

**PDS Code:** HV1

